

MISSOURI DEPARTMENT OF NATURAL RESOURCES **ENERGY CENTER - ENERGY LOAN PROGRAM**

DI E CETDACK THEDMOCTAT WORKSHEET

FROGRAMMADLE SETBACK TILENMOSTAT WORKSHLLT		
BUILDING	LOCATION	DATE
	<u>'</u>	1

To estimate the savings possible from a temperature reduction or night setback, the following information must be known:

The existing weekly operating hours when occupied. The existing weekly operating hours when unoccupied.

The proposed weekly operating hours when occupied.

The proposed weekly operating hours when unoccupied.

The existing weekly operating temperature when occupied. The existing weekly operating temperature when unoccupied. The proposed weekly operating temperature when occupied.

The proposed weekly operating temperature when unoccupied. The annual heating cost. **SAVINGS ESTIMATE** 1. Enter the existing weekly operating hours when occupied 2. Enter the existing weekly operating temperature when occupied...... Multiply line 1 by line 2..... 3. Enter the existing weekly operating hours when unoccupied 5. Enter the existing weekly operating temperature when unoccupied Multiply line 4 by line 5..... 6. 7 Add line 3 to line 6 8. Enter the proposed weekly operating hours when occupied..... 9. Enter the proposed weekly operating temperature when occupied...... Multiply line 8 by line 9..... 10. Enter the proposed weekly operating hours when unoccupied..... 11. Enter the proposed weekly operating temperature when unoccupied 12. 13. Multiply line 11 by line 12..... 14. Add line 10 to line 13 Subtract line 14 from line 7 15. 16. Multiply 0.0002 by line 15 If the heating energy source is not used for any other purposes and the cost for heating the building is known, then skip lines 17 through 20 and enter the value on line 21. If the energy source supplies heating as well as other needs of the building, proceed with line 17. Total the seven energy bills that heating is included in from October through April and enter that 17. amount..... 18. Enter the amount of the May energy bill that heating is included in...... 19. Multiply 7.0 by line 18 20. Subtract line 19 from line 17 and ENTER THIS VALUE ON LINE 21 BELOW. 21. ANNUAL HEATING COST..... **ANNUAL SAVINGS** Multiply line 16 by line 21..... /year **PROJECT COST** 23. Enter the total cost for the proposed project including material, labor and design SIMPLE PAYBACK Divide line 23 by line 22

MO 780-1360 (5-98) DNR/TAREQV 3.3 (5-98)